

# Laser Ranging Ground System

- **Progress**
  - Design completed for modifications needed for MOBLAS-5 (Australia) and MOBLAS-6 (South Africa) to participate in LRO-LR. Timing board is being setup in lab for testing.
  - One-way system delay measurement technique at NGSLR has been designed and parts are on order. MLRS and Herstmonceux are also working fire delay issue at their stations.
  - Independent timing test at NGSLR with Instrument Scientist awaits completion of the one-way system delay.
  - Document detailing the LR tests at NGSLR and results will be completed by end of January.
  - SCLK subroutines and documentation (for ILRS participating stations that will fire synchronously) are in final review before being sent out for Beta testing to R. Ricklefs at Univ. of Texas.
- **Issues & Risks:**
  - Disruption to LRO-LR due to NENS to SCNS contract change.

# Global LR Ground Stations

	Scheduling & Synch?	FireRate	in Earth Window	Events/second	Participation
NGSLR	YES	28Hz	28		Prime
MLRS	NO	10Hz	2 to 4		Secondary
Zimmerwald	YES	28Hz		28	Selected & will range
Herstmonceux	YES	7 or 14Hz	7 or 14		Selected & will range
Mt Stromlo	YES	28Hz		28	Mostly likely will participate
MOBLAS-5&6	NO	5Hz	1 to 2		Will range if design works
Wetzell	Probably	???	???		Proposal promised
Matera	NO	10Hz	2 to 4		Proposal promised
Grasse	???	???	???		Interested perhaps
Katsunuma	???	???	???		Interested but unlikely

Grasse Instrument Scientist (Xiaoli Sun) and LR Manager (Ron Zeller) are currently working with MLRS, Zimmerwald, and Herstmonceux to ensure stations range in configurations that will not damage LOLA.

- Draft Formal Agreement between Zimmerwald and LRO has been sent to Zimmerwald for review before signing. Herstmonceux draft agreement to go out shortly.